

ORDER FOR SUPPLIES OR SERVICES

(Contractor must submit four copies of invoice.)

Form Approved
OMB No. 0704-0187
Expires Jun 30, 1997

PAGE 1 OF 2

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0187), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR FORM TO EITHER OF THESE ADDRESSES.

SEND YOUR COMPLETED FORM TO THE PROCUREMENT OFFICIAL IDENTIFIED IN ITEM 6.

| | | | | | | | | | |
|---|--|-------------------------------|--|-----------------------------|--|---|--|---|--|
| 1. CONTRACT / PURCH ORDER NO DACW31-97-D-0007 | | 2. DELIVERY ORDER NO. 0017 | | 3. DATE OF ORDER 98NOV20 | | 4. REQUISITION / PURCH REQUEST NO. W81W3G-8322-7052 | | 5. PRIORITY C20 | |
| 6. ISSUED BY CONTRACTING DIVISION PO BOX 1715 BALTIMORE, MD 21203-1715 JOANNE ROACH P04 (410) 962-2585 | | | | CODE E1P0000 | | 7. ADMINISTERED BY (If other than 6) CONTR DIV A-E ACQUISITION BR PO BOX 1715 BALTIMORE, MD 21203-1715 | | | |
| 9. CONTRACTOR Vendor Id: 00001926 NAME AND ADDRESS DAMES & MOORE 849 INTERNATIONAL DRIVE SUITE 320 LINTHICUM MD 21090 | | | | CODE 3Y513 | | FACILITY CODE | | 10. DELIVER TO FOB POINT BY (Date) | |
| | | | | | | 12. DISCOUNT TERMS 0% 000 Days Net 030 | | 11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED | |
| | | | | | | 13. MAIL INVOICES TO BLOCK 14 ONLY | | | |
| 14. SHIP TO BALTIMORE DISTRICT CORPS OF ENGINEERS 10 SOUTH HOWARD STREET ATTN: CENAB-EN-G BALTIMORE MD 21201-2530 | | | | CODE AECTGEO | | 15. PAYMENT WILL BE MADE BY RMO-F&A ACCOUNTS PAYABLE SECTION PO BOX 1715 BALTIMORE MD 21203-1715 | | MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER | |
| | | | | DACW3197D0007 | | | | | |

| | | | |
|---|----------|-------------------------------------|--|
| 16. TYPE OF ORDER | DELIVERY | <input checked="" type="checkbox"/> | This delivery order is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract. |
| | PURCHASE | <input type="checkbox"/> | |
| Reference your <input type="checkbox"/> furnish the following on terms specified herein. | | | |
| ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME. | | | |

| | | | | |
|---|--------------------|-----------|----------------------|----------------------|
| <input type="checkbox"/> | NAME OF CONTRACTOR | SIGNATURE | TYPED NAME AND TITLE | DATE SIGNED (YYMMDD) |
| If this box is marked, supplier must sign Acceptance and return the following number of copies: 1 | | | | |

| | | | | |
|---|-----------------------|------------|----------------------|-----------|
| 17. ACCOUNTING AND APPROPRIATION DATA / LOCAL USE | | | | |
| 21920200000 088012 | 252GU0094349300824000 | ENVR 18020 | Award Oblig Amt US\$ | 47,587.00 |

| 18. ITEM NO. | 19. SCHEDULE OF SUPPLIES / SERVICE | 20. QUANTITY ORDERED / ACCEPTED* | 21. UNIT | 22. UNIT PRICE | 23. AMOUNT |
|--------------|--|----------------------------------|----------|----------------|------------|
| 0049 | P.O.C. THADDEUS BERGLING CENAB-EN-GG (410) 962-4451 FURNISH ALL LABOR AND MATERIAL REQUIRED TO ACCOMPLISH SOLVENT PLUME DELINEATION OU-2 BUILDING 106, VEHICLE MAINTENANCE FACILITY, VALLEY FORGE GENERAL HOSPITAL, PHOENIXVILLE, PA IN ACCORDANCE WITH THE | 1.00 | LS | 47587.000000 | 47587.00 |

| | | | | | |
|--|-------------------------|--|---------------------|---------------------------------|---------------------|
| *If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle. | | 24. UNITED STATES OF AMERICA BY: MARY P. CUNNINGHAM k13 | | 25. TOTAL \$ 47587.00 | |
| | | CONTRACTING / ORDERING OFFICER | | 29. DIFFERENCES | |
| 26. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED | | 27. SHIP. NO. | | 30. INITIALS | |
| DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE | | <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL | | 33. AMOUNT VERIFIED CORRECT FOR | |
| 36. I certify this account is correct and proper for payment. | | 31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL | | 34. CHECK NUMBER | |
| DATE SIGNATURE AND TITLE OF CERTIFYING OFFICER | | | | 35. BILL OF LADING NO. | |
| 37. RECEIVED AT | 38. RECEIVED BY (Print) | 39. DATE RECEIVED (YYMMDD) | 40. TOT. CONTAINERS | 41. S/R ACCOUNT NUMBER | 42. S/R VOUCHER NO. |



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MD 21203-1715

28 October 1998

Engineering Division
Geotechnical and Water Resources Branch

SUBJECT: Revised Request for Proposal under Contract No. DACW31-97-D0007 for Site Investigation Services, Delineation of OU-2 Solvent Plume, Valley Forge General Hospital, Phoenixville, Pennsylvania

Mr. Scott McClelland
Dames & Moore
7101 Wisconsin Avenue, Suite 700
Bethesda, Maryland 20814-4970

Dear Mr. McClelland,

The purpose of this letter is to request your revised fee proposal for the performance of services on the subject project. Please submit your fee proposal by October 29, 1998. I have enclosed the Revised Statement of Work for your use and guidance in the preparation of your proposal. The result of negotiations is not final until approved by the Contracting Officer.

You may contact Mr. Thad Bergling at (410) 962-4451 if you have any questions as you prepare your proposal.

Sincerely,

Jack Berezniak, P.E.
Authorized Representative of
the Contracting Officer

Enclosures

**Revised Statement of Work for Site Investigation Services
Contract DACW-3197-D0007
Solvent Plume Delineation
OU-2, Building 106, Vehicle Maintenance Facility
Valley Forge General Hospital
Phoenixville, Pennsylvania**

1.0 BACKGROUND

A review of the sampling and analytical data provided in the remedial investigation report prepared by Woodward-Clydeⁱ in 1993 indicates a low level contaminant plume in the vicinity of the vehicle maintenance facility at Building 106. The plume is primarily composed of trichloroethene (TCE), dichloroethene (DCE) and related weathering products, is very narrow, and is oriented with flow to the northeast. Total volatile organic compound (VOC) concentrations are about 200 parts per billion (ppb) near the center of the plume. Preliminary plume contours are plotted on Figures 1 and 2, attached.

A new permanent monitoring well is to be drilled down gradient of the vehicle maintenance facility to provide long term monitoring of this plume in accordance with Pennsylvania Department of Environmental Protection requirements. However, before this well can be properly located, the plume will require better delineation. Work for this delivery order shall include installation of 3 or 4 temporary monitoring wells and sampling of existing wells around Building 106 to provide proper delineation of this plume. The temporary wells are to be drilled on adjacent private (residential) property. Samples will be analyzed on a priority basis (next day) so that results are known quickly, the data can be plotted, and the temporary wells can be abandoned.

2.0 SCOPE OF SITE INVESTIGATION SERVICES

Subsurface investigations shall be performed in accordance with the attached work plan prepared for this project dated September 1998. Temporary monitoring wells shall be installed and sampled in accordance with the plan. All work under this delivery order shall be performed in accordance with the requirements outlined in Schedule C, Description/Specifications/Work Statement of the general contract. The scope of work is as follows:

1. Measurement of groundwater levels in adjacent existing monitoring wells, contouring of the groundwater surface and estimation of drill hole depths for temporary monitoring wells as outlined in the work plan.
2. Sampling of existing Monitoring Wells MW-8, HP-2, HP-4, HP-5 and HP-7, located around the Building 106 vehicle maintenance facility. Analytical testing shall be provided by a contract laboratory paid for directly by the USACE. The contract laboratory will provide courier service

to a prearranged point, on or near the site. Samples shall be analyzed for volatile organic compounds only.

3. Drilling of three or four temporary monitoring wells and sampling of groundwater from the temporary wells as outlined in the project work plan. Analytical testing of groundwater samples is to be conducted by the USACE with 24 hour turn around.

4. Upon completion of the testing, the results shall be contoured and the axis of the contaminate plume shall be plotted.

5. Surveying for horizontal and vertical locations of temporary monitoring wells and existing Monitoring Wells MW-8, HP-2, HP-4, HP-5 and HP-7, and development of a site plan with surveyed horizontal locations of the fence along the northern boundary of the VFGH property, the corners of Building 106, the four corners of the houses in the area of the investigation, and the curb lines in front of the homes on South Evergreen Drive. Note that locations of existing monitoring wells listed above appear to be in somewhat different locations than as shown on the drawings provided in the RI report and need to be surveyed to verify or to determine accurate locations for these wells.

6. Upon satisfactory completion of the analytical testing and plotting of the results, the temporary wells shall be abandoned as outlined in the project work plan and the drill hole sites shall be restored.

3.0 WORK ORDER PROVISIONS

3.1 Conditions of Work Area:

Drill hole locations for the temporary monitoring wells are to be drilled on private property. Rights of Entry shall be obtained by the U.S. Army Corps of Engineers prior to drilling. As a requirement for obtaining Rights of Entry, the drilling contractor/subcontractor shall be required to obtain insurance naming the individual property owners as additionally insured. The Contractor shall provide One Million (\$1,000,000.00) dollars of combined property and liability insurance per occurrence, and shall name, as an additional insured, the following listed property owners:

| Name | Address |
|--------------------------|---|
| Thomas and Evelyn Reihl | 1204 South Evergreen Drive, Phoenixville, Pa. 19460 |
| Paul and Helena Deegan | 1194 South Evergreen Drive, Phoenixville, Pa. 19460 |
| Robert and Ruth Dyer | 1184 South Evergreen Drive, Phoenixville, Pa. 19460 |
| Joseph and Sheryl Fagley | 1174 South Evergreen Drive, Phoenixville, Pa. 19460 |

Hours of work for this project shall be from 7:00 A.M. until 9:00 P.M. The Contractor shall remove the drill rig and tools from private residential property at the end of each working day. In the event the

contractor does not complete drilling and well installations by the end of the working day, the contractor shall leave the site in a safe condition and cover the borehole in a secure fashion.

The contractor shall gain entry to the site through the chain link fence along the rear of the properties. The entry point shall be identified in the field by USACE personnel. The fence shall be restored to its original condition upon completion of the work.

The contractor shall bring only one drill rig, one support truck and tools and materials necessary to complete the work onto residential property. Other vehicles shall be left on the adjacent Valley Forge General Hospital site. Once on the residential property, the contractor shall minimize travel over the site. In no case shall the contractor enter or leave the residential properties by traveling through the yards to the front of the property. The Contractor shall enter and leave only through the rear of the properties at the point identified by USACE personnel.

The contractor shall abandon the temporary monitoring wells upon the satisfactory completion of the analytical testing and restore the lawns by removing ruts, and placing seed, straw and/or sod to restore the property to the original condition. Where it is necessary to import material to regrade rutting, and for backfilling the upper two feet of the temporary monitoring wells, the contractor shall use only screened topsoil.

Drill hole cuttings, drilling mud, development water and other investigation derived materials shall be collected in drums and transported to the adjacent Valley Forge General Hospital site for testing/disposal as outlined in the project work plan.

3.2 Notification:

A minimum of 48 hours notice shall be provided to the property owners prior to beginning work on this project.

3.3 Assumptions:

The Contractor may assume the borings can be advanced to the planned depths with drilling methods that do not require the use of water such as rock coring or the use of a roller bit. Accordingly, wells will not require development, and the generation of investigation derived waste will be minimal (soil cuttings and personnel protective equipment)..

4.0 DELIVERABLES

The contractor shall provide the following at the completion of site investigation activities:

1. Drilling Logs in Microsoft Excel format including the soil stratigraphy, depths and methods of sampling
2. Boring/Monitoring well Location Plan
3. Plume Delineation Plan

4. Summary Report describing pertinent field activities, results and conclusions obtained from the investigation. The report shall include all graphs, logs, charts, plots, tables and other pertinent data obtained from the site investigation program. Drawings (boring location and plume delineation plans) shall be submitted in a format compatible with AutoCadd 12.0/14.0.

5.0 MEASUREMENT & PAYMENT

The work shall be priced to include all labor, supervision, permits, logging, mobilization, materials, surveying for boring locations, and handling of investigation derived waste, necessary to complete the work for groundwater sampling and the installation for three temporary monitoring wells as outlined in the project work plan. The Contractor shall include the price for an optional fourth monitoring well in the event that a fourth monitoring is needed to delineate the plume. Notice to proceed with the fourth monitoring well shall be provided in writing in the event a fourth well is needed.

6.0 SCHEDULE

Dames & Moore shall begin work under this delivery order within 3 weeks following notification to proceed. The performance time for completing the work shall be 15 working days (3 weeks). Boring logs, the boring location plan and plume delineation plan shall be provided within 2 weeks of completion of field work.

7.0 POINTS OF CONTACT

The point of Contact for this delivery order is Mr. Thaddeus R. Bergling, (410) 962-4451.

ⁱ Final Report, Remedial Investigation, Valley Forge General Hospital, Phoenixville, Pennsylvania, by Woodward-Clyde Federal Services, Dated 6 August 1993.

| | | | | | | | | | | | |
|--|--|-----------------------------------|---|---|---------|---|-------------|--|--|---|--|
| PURCHASE REQUEST AND COMMITMENT | | | | PURCHASE INSTRUMENT NO. | | REQUISITION NO. | | DATE | | PAGE | |
| For use of this form, see AR 37-1: the proponent agency is Hq Dept. ARMY | | | | | | W81W3G83227052 | | 18Nov1998 | | 0001 | |
| TO: Purchasing and Contracting Officer | | | | THRU: CONTRACTING DIVISION | | FROM: CONSTRUCTION DIVISION | | | | | |
| It is requested that the supplies and services enumerated below or on attached list be: | | | | | | | | | | | |
| PURCHASED FOR CONSTRUCTION DIVISION | | | | DELIVERED TO SEE LINE ITEM BELOW | | | | NOT LATER THAN (DATE) SEE LINE ITEM BELOW | | | |
| <p>The supplies and services listed below cannot be secured through normal channels or other Army supply sources in the immediate vicinity, and their procurement will not violate existing regulations pertaining to local purchases for stock, therefore, local procurement is necessary for the following reason: (Check appropriate box and complete item)</p> | | | | | | | | | | | |
| LOCAL PURCHASES AUTHORIZED AS THE NORMAL MEANS OF SUPPLY FOR THE FOREGOING BY | | | | REQUISITIONING DISCLOSES NONAVAILABILITY OF ITEMS AND LOCAL PURCHASE IS AUTHORIZED BY | | | | NAME OF PERSON TO CALL FOR ADDITIONAL INFORMATION THADDEUS BERGLING | | | |
| <p>EMERGENCY SITUATION PRECLUDES USE OF REQUISITION CHANNELS FOR SECURING ITEM</p> | | | | | | | | | | | |
| ITEM | | DESCRIPTION OF SUPPLY OR SERVICES | | QUANTITY | UNIT | ESTIMATED UNIT PRICE | | TOTAL COST | | SEE LINE ITEM BELOW | |
| 0001 | VALLEY FORGE GENERAL HOSPITAL-SITE INVESTIGATION | | 0 | LS | \$.000 | | \$47,587.00 | | <p>THE SUPPLIES AND SERVICES LISTED ON THIS REQUEST ARE PROPERLY CHARGE-able to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed.</p> | | |
| DEL DATE 18Nov1998 21 NA 1999 2020.0000 | | E1 1999 08 18012 49300824000 | | MD 18020 252G U00943 | | | | | | <p>Fund Certification</p> | |
| SHIP TO CONTRACTING DIVISION | | BALTIMORE | | MD 410-962-4451 | | | | | | <p>ACCOUNTING CLASSIFICATION AND AMOUNT</p> | |
| DEL TO THADDEUS BERGLING | | | | | | | | | | <p>THE FOREGOING ITEMS ARE REQUIRED NOT LATER THAN AS INDICATED ABOVE FOR THE FOLLOWING PURPOSE</p> | |
| | | | | | | | | | | <p>000 FUNDING PROVIDED UNDER CONTRACT NO. DACW31-97-D-0007 TO EXERCISE A SITE INV.</p> | |
| | | | | | | | | | | <p>000 (OU-2 PLUME DELINEATION, VALLEY FORGE GENERAL HOSPITAL.</p> | |
| | | | | | | | | | | <p>000 .</p> | |
| TYPED NAME AND GRADE OF INITIATING OFFICER VIVIAN LATTIMORE | | SIGNATURE /S/VIVIAN LATTIMORE | | DATE 18Nov1998 | | TYPED NAME AND GRADE OF APPROVING OFFICER OR DESIGNER | | SIGNATURE | | DATE | |
| TELEPHONE NO. | | | | | | | | | | | |
| TYPED NAME AND GRADE OF SUPPLY OFFICER | | SIGNATURE | | DATE | | VIVIAN LATTIMORE BUDGET ASSISTANT | | /S/VIVIAN LATTIMORE | | 18Nov1998 | |

CENAB-EN-G

FOR OFFICIAL USE ONLYDate: 28-Oct-98

**GOVERNMENT ESTIMATE
GEOTECHNICAL & ENVIRONMENTAL SITE INVESTIGATION**

Contract No. : DACW31-97-D-0007

A/E Name: Dames & Moore, Linthicum, MD

PROJECT NAME: OU-2 Solvent Plume Delineation
PROJECT LOCATION: Valley Forge General Hospital

1. DIRECT LABOR COSTS:

see page 2 for details

2. OVERHEAD COSTS:

Rate: 150%

3. OTHER DIRECT COSTS:

see page 3 for details

4. TRAVEL COSTS:

see page 4 for details

5. TOTAL ESTIMATED COSTS:**6. PROFIT:**Fee: 10.00%**7. TOTAL ESTIMATED COSTS PLUS FEE:**

| Main Scope | 4th Well | Total |
|--------------------|-------------------|--------------------|
| \$8,205.17 | \$1,413.78 | \$9,618.95 |
| \$12,307.76 | \$2,120.67 | \$14,428.42 |
| \$ 15,475.80 | \$ 3,817.40 | \$ 19,293.20 |
| \$35,988.73 | \$7,351.85 | \$43,340.57 |
| \$3,598.87 | \$735.18 | \$4,334.06 |
| \$39,587.60 | \$8,087.03 | \$47,674.63 |

Prepared By:

Thaddeus R. Bergling
 Name **THADDEUS R. BERGLING**
 Title **GEOTECHNICAL**
 Section **G/I SECTION**

Date: 10/28/98

Approved By:

Jack Berezniak
 Jack Berezniak, P.E.
 Authorized Representative of
 the Contracting Officer

Date: 28 OCT 98**FOR OFFICIAL USE ONLY**

Protective marking is excluded for
 automatic termination (Para. 13,
 AR 340-16)

OU-2 Solvent Plume Delineation
Valley Forge General Hospital

| | | | | | | | | |
|---------------------------|---------|---------|---------|---------|-------|-------|-------|------------|
| TOTAL HOURS BY CATEGORY: | 46 | 110 | 110 | 131 | 18 | 14 | 18 | 461 |
| TOTAL DIRECT LABOR COSTS: | \$1,908 | \$2,524 | \$1,580 | \$2,538 | \$399 | \$170 | \$258 | \$9,618.95 |

**GOVERNMENT ESTIMATE
GEOTECHNICAL & ENVIRONMENTAL SITE INVESTIGATION
OTHER DIRECT COSTS**

PROJECT NAME: OU-2 Solvent Plume Delineation

PROJECT LOCATION: Valley Forge General Hospital

| ITEM | Main Scope | | Optional Fourth Temporary Well | | TOTALS | |
|---------------------------------------|------------|--------|--------------------------------|----------|--------|-----------|
| | RATE | U/I | UNIT | COST | UNIT | COST |
| Field Equipment: | | | | | | |
| 1 Drill Rig | \$460.00 | day | 8 \$ | 3,680.00 | 2 \$ | 920.00 |
| 2 Support Vehicle | \$300.00 | day | 8 \$ | 2,400.00 | 2 \$ | 600.00 |
| 3 Drill Rig Mobilization | \$500.00 | LS | 2 \$ | 1,000.00 | 1 \$ | 500.00 |
| 4 3/4 inch plywood | \$20.00 | sheet | 8 \$ | 160.00 | 0 \$ | - |
| 5 Water Level Indicator | \$25.00 | day | 8 \$ | 200.00 | 2 \$ | 50.00 |
| 6 Per Diem, Drill Crew | \$165.00 | day | 6 \$ | 990.00 | 1 \$ | 165.00 |
| 7 Surveying Truck/Equipment | \$17.00 | hr | 20 \$ | 340.00 | \$ | - |
| 8 Field Computer | \$50.00 | day | 5 \$ | 250.00 | 1 \$ | 50.00 |
| 9 PID | \$60.00 | day | 5 \$ | 300.00 | 1 \$ | 60.00 |
| Subtotal: | | | \$ | 9,320.00 | \$ | 2,345.00 |
| Expendable Supplies: | | | | | | |
| 1 Bentonite Pellets/Chips/Filter sand | \$7.00 | 50#bag | 8 \$ | 56.00 | 4 \$ | 28.00 |
| 2 Cement Grout, | \$12.00 | Bag | 20 \$ | 240.00 | 7 \$ | 84.00 |
| 3 55 Gallon Drums | \$26.50 | each | 4 \$ | 106.00 | 1 \$ | 26.50 |
| 4 1" PVC Riser | \$2.00 | LF | 90 \$ | 180.00 | 30 \$ | 60.00 |
| 5 10' PVC Screens | \$20.00 | each | 3 \$ | 60.00 | 1 \$ | 20.00 |
| 6 Protective Casings & Locks | \$50.00 | each | 3 \$ | 150.00 | 1 \$ | 50.00 |
| 7 Level D H&S Equipment | \$20.00 | day | 6 \$ | 120.00 | 2 \$ | 40.00 |
| 8 Tyvek Suits | \$12.00 | pr | 6 \$ | 72.00 | 2 \$ | 24.00 |
| 9 Nitrile Gloves | \$5.00 | LS | 8 \$ | 40.00 | 2 \$ | 10.00 |
| 10 Well Permits | \$110.00 | each | 3 \$ | 330.00 | \$ | - |
| Subtotal: | | | \$ | 1,354.00 | \$ | 342.50 |
| Office Equipment: | | | | | | |
| 1 PC Time | \$15.00 | hr | 10 \$ | 150.00 | 2 \$ | 30.00 |
| 2 Reproduction (shd) | \$0.10 | copy | 200 \$ | 20.00 | 20 \$ | 2.00 |
| 3 Fax | \$1.50 | page | 30 \$ | 45.00 | 10 \$ | 15.00 |
| 4 CAD Operations w/plotter | \$30.00 | hr | 2 \$ | 60.00 | 1 \$ | 30.00 |
| Subtotal: | | | \$ | 275.00 | \$ | 77.00 |
| Other Direct Costs Items: | | | | | | |
| 1 Telephone | \$5.00 | call | 4 \$ | 20.00 | 1 \$ | 5.00 |
| 2 Shipping (overnight letter) | \$5.90 | each | 2 \$ | 11.80 | 1 \$ | 5.90 |
| 3 Shipping (15 lb. package) | \$30.00 | each | 2 \$ | 60.00 | 1 \$ | 30.00 |
| 4 Landscaper for Restoration | \$200.00 | each | 3 \$ | 600.00 | 1 \$ | 200.00 |
| 5 Landscape Materials/equipment | \$500.00 | each | 3 \$ | 1,500.00 | 1 \$ | 500.00 |
| 6 mileage | \$0.31 | mi | 500 \$ | 155.00 | 200 \$ | 62.00 |
| 7 Field Vehicle | \$50.00 | day | 6 \$ | 300.00 | 1 \$ | 50.00 |
| 8 Liquid & Plastic Limits | \$45.00 | each | 6 \$ | 270.00 | 2 \$ | 90.00 |
| 9 Gradation + Hydrometer | \$80.00 | each | 3 \$ | 240.00 | 1 \$ | 80.00 |
| 10 Gradation + Hydrometer | \$30.00 | each | 3 \$ | 90.00 | 1 \$ | 30.00 |
| 11 Dames & Moore Per Diem | \$128.00 | day | 10 \$ | 1,280.00 | \$ | 1,052.90 |
| Subtotal: | | | \$ | 4,526.80 | \$ | 1,052.90 |
| | | | | | \$ | 5,579.70 |
| | | | | | \$ | 11,665.00 |
| | | | | | \$ | 1,696.50 |
| | | | | | \$ | 352.00 |
| | | | | | \$ | 352.00 |
| | | | | | \$ | 5,579.70 |
| | | | | | \$ | 19,293.20 |

TOTAL OTHER DIRECT COSTS:

Page 3 \$ 15,475.80

\$ 3,817.40

\$ 19,293.20



DAMES & MOORE

A DAMES & MOORE GROUP COMPANY

October 28, 1998

7101 Wisconsin Avenue, Suite 700
Bethesda, Maryland 20814-4870
301 652 2215 Tel
301 656 8059 Fax

Mr. Thad Bergling
U.S. Army Corps of Engineers
Baltimore District
Room 9250N
10 South Howard Street
Baltimore, Maryland 21201

Re: Cost Proposal
Contract DACW-97-D-0007
Site Investigation Services
Solvent Plume Delineation
OU-2, Building 106
Valley Forge General Hospital

Dear Mr. Bergling:

Enclosed please find our cost proposal for the above-referenced project. If you have any questions regarding our proposal, please contact me at (301) 652-2215.

Sincerely,

DAMES & MOORE

A handwritten signature in black ink, appearing to read 'S. McClelland', with a long horizontal flourish extending to the right.

Scott McClelland
Associate

Enclosure

**TECHNICAL AND COST PROPOSAL FOR
SITE INVESTIGATION SERVICES
SOLVENT PLUME DELINEATION
OU-2, BUILDING 106, VEHICLE MAINTENANCE FACILITY
VALLEY FORGE GENERAL HOSPITAL, PHOENIXVILLE, PA**

1.0 INTRODUCTION

This technical and cost proposal is prepared in accordance with Dames & Moore's contract No. DACW-97-D-0007 with the Department of the Army, Baltimore District, Corps of Engineers, and is based on the Scope of Work provided to Dames & Moore dated October 16, 1998. Section 2.0 of this proposal details Dames & Moore's understanding of the technical portion of the planned work, Section 3.0 identifies key project personnel and subcontractors, Section 4.0 summarizes health and safety issues, Section 5.0 provides a list of equipment, Section 6.0 provides a schedule, and Section 7.0 provides a list of the deliverables. Section 8.0 provides the work breakdown and cost estimate to complete the scope of services. Detailed cost breakdowns are included on Tables 8-1 and 8-2. A summary of the project costs is provided in Table 8-3.

2.0 SCOPE OF WORK SUMMARY

A review of the sampling and analytical data provided in the remedial investigation report prepared by Woodward-Clyde in 1993 indicates a low level contaminant plume in the vicinity of the vehicle maintenance facility at Building 106. The plume is primarily composed of trichloroethene (TCE), dichloroethene (DCE) and related weathering products, is very narrow, and is oriented with flow to the northeast. Total volatile organic compound (VOC) concentrations are about 200 parts per billion (ppb) near the center of the plume.

A new permanent monitoring well is to be drilled down gradient of the vehicle maintenance facility to provide long term monitoring of this plume in accordance with Pennsylvania Department of Environmental Protection requirements. However, before this well can be properly located, the plume will require better delineation. Work for this delivery order shall include installation of 3 or 4 temporary monitoring wells and sampling of existing wells around Building 106 to provide proper delineation of this plume. The temporary wells are to be drilled on adjacent private (residential) property. Samples will be analyzed on a priority basis (next day) so that results are known quickly, the data can be plotted, and the temporary wells can be abandoned.

Subsurface investigations shall be performed in accordance with the work plan prepared for this project dated September 1998. Temporary monitoring wells shall be installed and sampled in accordance with the plan. All work under this delivery order shall be performed in accordance with the requirements outlined in Schedule C, Description/Specifications/Work Statement of the general contract. The scope of work is as follows:

1. Measurement of groundwater levels in adjacent existing monitoring wells, contouring of the groundwater surface and estimation of drill hole depths for temporary monitoring wells as outlined in the work plan.
2. Sampling of existing Monitoring Wells MW-8, HP-2, HP-4, HP-5 and HP-7, located around the Building 106 vehicle maintenance facility. Analytical testing shall be provided by a contract laboratory paid for directly by the USACE. The contract laboratory will provide courier service to a prearranged point, on or near the site. Samples shall be analyzed for volatile organic compounds only.
3. Drilling of three or four temporary monitoring wells and sampling of groundwater from the temporary wells as outlined in the project work plan. Analytical testing of groundwater samples is to be conducted by the USACE with 24 hour turn around.
4. Upon completion of the testing, the results shall be contoured and the axis of the contaminate plume shall be plotted.
5. Surveying for horizontal and vertical locations of temporary monitoring wells and existing Monitoring Wells MW-8, HP-2, HP-4, HP-5 and HP-7. Note that locations of existing monitoring wells listed above appear to be in somewhat different locations than as shown on the drawings provided in the RI report and need to be surveyed to verify or to determine accurate locations for these wells. Additional surveying shall include surveying four corners of Building 106, the fenceline, four corners of each of the residential houses located downgradient of Building 106, and both curbs of S. Evergreen Drive.
6. Upon satisfactory completion of the analytical testing and plotting of the results, the temporary wells shall be abandoned as outlined in the project work plan and the drill hole sites shall be restored.

Drill hole locations for the temporary monitoring wells are to be drilled on private property. Rights of Entry shall be obtained by the U.S. Army Corps of Engineers prior to drilling. As a requirement for obtaining Rights of Entry, the drilling contractor/subcontractor shall be required to obtain insurance naming the individual property owners as additionally insured. The Contractor shall provide One Million (\$1,000,000.00) dollars of combined property and liability insurance per occurrence, and shall name, as an additional insured, the following listed property owners:

Thomas and Evelyn Reihl: 1204 South Evergreen Drive, Phoenixville, Pa. 19460
Paul and Helena Deegan: 1194 South Evergreen Drive, Phoenixville, Pa. 19460
Robert and Ruth Dyer: 1184 South Evergreen Drive, Phoenixville, Pa. 19460
Joseph and Sheryl Fagley: 1174 South Evergreen Drive, Phoenixville, Pa. 19460

Hours of work for this project shall be from 7:00 A.M. until 9:00 P.M. The Contractor shall remove the drill rig and tools from private residential property at the end of each working day. In the event the contractor does not complete drilling and well installations by the end of the working day, the contractor shall leave the site in a safe condition and cover the borehole in a secure fashion.

The contractor shall gain entry to the site through the chain link fence along the rear of the properties. The entry point shall be identified in the field by USACE personnel. The fence shall be restored to its original condition upon completion of the work.

The contractor shall bring only one drill rig, one support truck and tools and materials necessary to complete the work onto residential property. Other vehicles shall be left on the adjacent Valley Forge General Hospital site. Once on the residential property, the contractor shall minimize travel over the site. In no case shall the contractor enter or leave the residential properties by traveling through the yards to the front of the property. The Contractor shall enter and leave only through the rear of the properties at the point identified by USACE personnel.

The contractor shall abandon the temporary monitoring wells upon the satisfactory completion of the analytical testing and restore the lawns by removing ruts, and placing seed, straw and/or sod to restore the property to the original condition. Where it is necessary to import material to regrade rutting, and for backfilling the upper two feet of the temporary monitoring wells, the contractor shall use only screened topsoil.

Drill hole cuttings, drilling mud, development water and other investigation derived materials shall be collected in drums and transported to the adjacent Valley Forge General Hospital site for testing/disposal as outlined in the project work plan. For the purposes of this work scope, it shall be assumed that no liquid wastes, other than decontamination water and purge water from the existing wells will be generated.

A minimum of 48 hours notice shall be provided to the property owners prior to beginning work on this project.

3.0 KEY PERSONNEL

The following key personnel have been assigned the following responsibilities to support this project:

Mr. Jeffrey Parks, P.G. is the Program Manager for this contract and will serve as such during this task order. Mr. Scott McClelland, P.G., has been identified as the Project Manager for this project based on his knowledge of previous site investigations at the Valley Forge General Hospital.

Subcontractors selected for this project include:

GeoServices Corporation will provide drilling services. GeoServices is a member of the Dames & Moore Team prepared for this contract.

Boucher & James will provide topographic surveying services for this project. Boucher & James is a member of the Dames & Moore Team prepared for this contract and conducted surveying work previously at this site.

4.0 HEALTH AND SAFETY

Based on information provided in the RFP, the project is a known HTRW site, and proposed drilling locations may encounter groundwater that is contaminated with volatile organic compounds (VOCs) at total VOC concentrations around 200 ppb.

Based on this information provided above, the proposed scope of work is planned to be performed under Level D, personnel protective equipment, with appropriate monitoring. A site-specific health and safety plan, generated by Dames & Moore for previous work at the OU-1, Incinerator Ash Landfill will be utilized by field personnel in accordance with Dames & Moore's corporate Health and Safety Program, and it is assumed that an additional plan is not required.

The borings are located in residential properties located north/northwest of Building 106. To mitigate potential risks to residents in the area, all drilling equipment shall be removed at the end of each working day, and the borehole, if uncompleted, shall be covered to prevent a physical hazard from being present.

5.0 LIST OF MATERIALS AND EQUIPMENT

A list of materials and equipment to be supplied to complete this project is presented in Section 8.0.

6.0 SCHEDULE

Dames & Moore shall begin work under this delivery order within three weeks following notification to proceed. The performance time for completing the boreholes shall be 15 working days (3 weeks). Boring logs, the boring location plan, and plume delineation plan will be provided within two (2) weeks of completion of the field work and receipt of final analytical data from USACE.

7.0 DELIVERABLES

A summary report will be prepared at the completion of drilling and testing activities to provide the following:

- ☐ Drilling logs in Microsoft EXCEL format, including the soil stratigraphy, depths and methods of sampling.
- ☐ Boring/monitoring well location plan
- ☐ Plume delineation plan
- ☐ Summary report describing pertinent field activities, results and conclusions obtained from the investigation. The report shall include all graphs, logs, charts, plots, tables, and other pertinent data obtained from the site investigation program. Drawings (boring location and plume delineation plans) shall be submitted in a format compatible with AutoCadd 12.0/14.0.

8.0 COST PROPOSAL

Based on the scope of work described in Section 2.0, and as directed in the SOW, Dames & Moore has developed a work breakdown structure to complete the project as follows:

| Task Number | Task Name |
|-------------|--|
| 01 | Temporary Wells P-1 to P-3 |
| 01.01 | Planning |
| 01.02 | Site Visit, Water Levels, Staking |
| 01.03 | Surveying |
| 01.04 | Existing Well Sampling |
| 01.05 | Mobilization and Drilling |
| 01.06 | Temporary Well Sampling |
| 01.07 | Mobilization and Abandonment |
| 01.08 | Site Restoration |
| 02 | Temporary Well P-4 |
| 02.01 | Mobilization, Drilling and Well Installation |
| 02.02 | Temporary Well Sampling |
| 02.03 | Mobilization , Abandonment, Site Restoration |
| 03 | Reporting |
| 03.01 | Report Preparation |

Based on this work breakdown structure, and because of the need to complete drilling activities and mobilize off of the residential properties at the beginning and end of each day, Dames & Moore has based its drilling and well installation cost estimate on a 10 - hour subcontractor and field geologist field day, and other factors for each work project element as detailed in the following sections. GeoServices Corporation plans on utilizing a drilling crew comprised of a driller and one laborer. Tables 8-1 and 8-2 at the end of this section detail the cost breakdown for labor and other direct costs (ODCs), including equipment, materials, and travel. Table 8-3 presents the total project costs including overhead and fee. These tables have been developed such that the costs associated with the installation of the fourth temporary well are priced separately.

Task 01 Temporary Wells P-1 to P-3

Subtask 01.01 Planning

- ☐ Includes time for obtaining insurance of the four individual property owners, coordinating subcontractor personnel, preparation of figures for field personnel to use, and coordination of field efforts with homeowners.

Subtask 01.02 Site Visit, Water Levels, and Staking

- ☐ Includes costs for Project Manager and Field Geologist to visit site, collect water levels from existing wells, stake/mark temporary well locations, and spend approximately ½ of the day beginning to collect water samples from the existing wells.

Subtask 01.03 Surveying

- ☐ Includes costs for surveyor to survey five existing monitoring wells, four temporary well locations, corners of Building 106, the fenceline, corners of the four downgradient residential houses, and the curbs of S. Evergreen Drive over a period of two field and one office day.

Subtask 01.04 Existing Well Sampling

- ☐ Includes time to purge and sample five existing wells over a period of one (1) day by the field geologist. Note that time for this sampling is also included in Subtask 01.02.

Subtask 01.05 Mobilization and Drilling

- ☐ Includes costs for driller to mobilize to the site, remove fencing to allow site access, and drill and install three (3) one-inch diameter PVC temporary wells to depths of 30 feet.
- ☐ Assumes a period of one (1) day for mobilization, decontamination, and setup; three (3) days for the drilling and installation of the temporary wells; and one (1) additional day for decontamination, well completion, daily site entry and exit, and weather delays.
- ☐ Assumes that the borings can be drilled without the use of water to the target depths using hollow stem augers.

Subtask 01.06 Temporary Well Sampling

- ☐ It is assumed that each well will not require purging prior to sampling, and that the sampling will require the field geologist a total of one day (approximately 3 hours/well) to complete.

Subtask 01.07 Mobilization and Abandonment

- ☐ Includes costs for the driller to mobilize to the site and abandon the wells over a period of two (2) days. Also includes costs to abandon well P-4, if necessary (see Subtask 02.03)

Subtask 01.08 Site Restoration

- ☐ Includes costs for the driller to repair the fencing and regrade/reseed boring locations after the wells are abandoned. A period of one day is assumed to be necessary. Also includes costs to restore area around P-4, if necessary (see Subtask 02.03).

TASK 02--TEMPORARY WELL P-4

Subtask 02.01 Mobilization, Drilling and Well Installation

- ☐ Includes costs to mobilize, drill, and install temporary well P-4. It is assumed that two (2) days will be necessary to mobilize, decontaminate equipment, re-open the fence, and drill the well.
- ☐ Assumes that the borings can be drilled without the use of water to the target depths using hollow stem augers.

Subtask 02.02 Temporary Well Sampling

- ☐ It is assumed that well P-4 will require purging prior to sampling, and that the sampling will require the field geologist a total of one day.

Subtask 02.03 Mobilization, Abandonment, and Site Restoration

- ☐ Costs for the mobilization, abandonment, and site restoration are included in Task 01.07 and 01.08, because it is assumed that if well P-4 is needed, it will be abandoned at the same time that P-1 to P-3 are abandoned; thus resulting in a single mobilization.

TASK 03--REPORTING

- ☐ Includes costs for boring log preparation, plume delineation plan, boring location plan, and summary report for submittal to USACE.

TABLE 8-1

DIRECT LABOR COSTS

[illegible]

| ODCS FOR TASK 02 | | | | | | | | Total | Total |
|--|-----------|-------|-------|-------|-------|-------|----------|-------|-------|
| Item | Rate | Unit | 02.01 | 02.02 | 02.03 | Units | Cost | | |
| Drilling Equipment (GeoServices) | | | | | | | | | |
| Drill Rig | \$ 460.00 | /day | 2 | | | 2 | \$ 920 | | |
| Support Vehicle (Drilling, et al) | \$ 300.00 | /day | 2 | | | 2 | \$ 600 | | |
| Drill Rig Mobilization | \$ 500.00 | /ea | 1 | | | 1 | \$ 500 | | |
| 3/4-inch plywood (4'x8' sheets) | \$ 20.00 | /sht | | | | 0 | \$ - | | |
| 55 gallon drums | \$ 26.50 | /ea | | | | 0 | \$ - | | |
| Concrete 94# bag | \$ 7.80 | /bag | 10 | | | 10 | \$ 78 | | |
| Hole Plug bentonite grout 50# bag | \$ 8.00 | /bag | 1 | | | 1 | \$ 8 | | |
| 1-in ID PVC Well Screen | \$ 2.60 | /ft | 15 | | | 15 | \$ 39 | | |
| 1-in PVC Well Riser | \$ 1.25 | /ft | 15 | | | 15 | \$ 19 | | |
| Filter Sand | \$ 4.50 | /bag | 13 | | | 13 | \$ 59 | | |
| Bentonite Pellets | \$ 40.70 | /pail | 1 | | | 1 | \$ 41 | | |
| Protective Casing | \$ 60.00 | /ea | 1 | | | 1 | \$ 60 | | |
| Lock | \$ 9.60 | /ea | 1 | | | 1 | \$ 10 | | |
| Well Permit | \$ 100.00 | /ea | 1 | | | 1 | \$ 100 | | |
| Per Diem (crew) | \$ 165.00 | /day | 1 | | | 1 | \$ 165 | | |
| Grass seed (10#) | \$ 20.00 | /bag | 1 | | | 1 | \$ 20 | | |
| Top soil (40#) | \$ 2.50 | /bag | 2 | | | 2 | \$ 5 | | |
| 1" plug | \$ 4.75 | /ea | 1 | | | 1 | \$ 5 | | |
| 1" cap | \$ 16.50 | /ea | 1 | | | 1 | \$ 17 | | |
| Surveying Equipment (Boucher & James) | | | | | | | | | |
| Surveying Truck & Equipment | \$ 17.00 | /hr | | | | 0 | \$ - | | |
| Subtotal Subcontractor ODCs | | | | | | | \$ 2,644 | | |
| Dames & Moore Equipment | | | | | | | | | |
| Water Level Indicator | \$ 25.00 | /day | | 1 | | 1 | \$ 25 | | |
| Level D H&S Equipment | \$ 20.00 | /day | 2 | 1 | | 3 | \$ 60 | | |
| Photo Ionization Detector | \$ 300.00 | /wk | 0.4 | | | 0.4 | \$ 120 | | |
| Nitrile Gloves | \$ 5.00 | /pair | 2 | 1 | | 3 | \$ 15 | | |
| Tyvek Suits | \$ 12.00 | /ea | 2 | 1 | | 3 | \$ 36 | | |
| pH, temp, DO, CND, Turb, and Salin. meter | \$ 75.00 | /day | | 1 | | 1 | \$ 75 | | |
| PTFE Bailer | \$ 25.00 | /day | | 1 | | 1 | \$ 25 | | |
| Peristaltic Pump | \$ 25.00 | /day | | 1 | | 1 | \$ 25 | | |
| Personnel computer (networked) | \$ 15.00 | /hr | | | | 0 | \$ - | | |
| Reproduction (sht) | \$ 0.10 | /page | | | | 0 | \$ - | | |
| Facsimile | \$ 1.50 | /page | | | | 0 | \$ - | | |
| GIS/CAD Operations w/plotter | \$ 30.00 | /hr | | | | 0 | \$ - | | |
| Subtotal Dames & Moore Equipment | | | | | | | \$ 381 | | |
| Dames & Moore ODCs | | | | | | | | | |
| Isopropanol | \$ 35.00 | /gal | | 1 | | 1 | \$ 35 | | |
| Expendible Supplies (ice, foil, DI water) | \$ 10.00 | /day | 2 | 1 | | 3 | \$ 30 | | |
| Telephone | \$ 5.00 | /call | 2 | 1 | | 3 | \$ 15 | | |
| Shipping (overnight ltr) | \$ 5.90 | /ea | | | | 0 | \$ - | | |
| Per Diem | \$ 128.00 | /day | 2 | 1 | | 3 | \$ 384 | | |
| Mileage | \$ 0.31 | /mi | | | | 0 | \$ - | | |
| Field Vehicle (incl mi & fuel) | \$ 50.00 | /day | 2 | 1 | | 3 | \$ 150 | | |
| Subtotal Dames & Moore ODCs | | | | | | | \$ 614 | | |
| TOTAL ODCs FOR TASK 02 | | | | | | | \$ 3,639 | | |
| Dames & Moore Equipment Rates obtained from Dames & Moore's Equipment Rate Catalog, FY 97/98 | | | | | | | | | |
| GeoServices Equipment Rates obtained from GeoServices, Inc. proposal for services to Dames & Moore dated October, 1998 | | | | | | | | | |

TABLE 8-2
OTHER DIRECT COSTS AND EQUIPMENT

| | ODCS FOR TASKS 01 and 03 | | | | | | | | | | | Total | Total |
|--|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Item | Rate | Unit | 01.01 | 01.02 | 01.03 | 01.04 | 01.05 | 01.06 | 01.07 | 01.08 | 03.01 | Units | Cost |
| Drilling Equipment (GeoServices) | | | | | | | | | | | | | |
| Drill Rig | \$ 460.00 | /day | | | | | 5 | | 2 | 1 | | 8 | \$ 3,680 |
| Support Vehicle (Drilling, et al) | \$ 300.00 | /day | | | | | 5 | | 2 | 1 | | 8 | \$ 2,400 |
| Drill Rig Mobilization | \$ 500.00 | /ea | | | | | 1 | | 1 | | | 2 | \$ 1,000 |
| 3/4-inch plywood (4'x8' sheets) | \$ 20.00 | /sht | | | | | 8 | | | | | 8 | \$ 160 |
| 55 gallon drums | \$ 26.50 | /ea | | | | | 4 | | | | | 4 | \$ 106 |
| Concrete 94# bag | \$ 7.80 | /bag | | | | | | | 30 | | | 30 | \$ 234 |
| Hole Plug bentonite grout 50# bag | \$ 8.00 | /bag | | | | | 45 | | | | | 45 | \$ 360 |
| 1-in ID PVC Well Screen (.001 slot) | \$ 2.60 | /ft | | | | | 45 | | | | | 45 | \$ 117 |
| 1-in PVC Well Riser | \$ 1.25 | /ft | | | | | 40 | | | | | 40 | \$ 50 |
| Filter Sand (Moxie #1, 50#) | \$ 4.50 | /bag | | | | | 3 | | | | | 3 | \$ 14 |
| Bentonite Pellets | \$ 40.70 | /pail | | | | | 3 | | | | | 3 | \$ 122 |
| Protective Casing | \$ 60.00 | /ea | | | | | 3 | | | | | 3 | \$ 180 |
| Lock | \$ 9.60 | /ea | | | | | 3 | | | | | 3 | \$ 29 |
| Well Permit | \$ 100.00 | /ea | | | | | 3 | | | | | 3 | \$ 300 |
| Per Diem (crew) | \$ 165.00 | /day | | | | | 4 | | 1 | 1 | | 6 | \$ 990 |
| Grass seed (10#) | \$ 20.00 | /bag | | | | | | | | 3 | | 3 | \$ 60 |
| Top soil (40#) | \$ 2.50 | /bag | | | | | | | | 10 | | 10 | \$ 25 |
| 1" plug | \$ 4.75 | /ea | | | | | 3 | | | | | 3 | \$ 14 |
| 1" locking cap | \$ 16.50 | /ea | | | | | 3 | | | | | 3 | \$ 50 |
| Surveying Equipment (Boucher & James) | | | | | | | | | | | | | |
| Surveying Truck & Equipment | \$ 17.00 | /hr | | | 16 | | | | | | | 16 | \$ 272 |
| Subtotal Subcontractor ODCs | | | | | | | | | | | | | \$ 10,162 |
| Dames & Moore Equipment | | | | | | | | | | | | | |
| Water Level Indicator | \$ 25.00 | /day | | 1 | | 2 | | 1 | | | | 4 | \$ 100 |
| Level D H&S Equipment | \$ 20.00 | /day | | 1 | | 2 | 5 | 1 | 2 | | | 11 | \$ 220 |
| Photo Ionization Detector | \$ 300.00 | /wk | | | | | 1 | | | | | 1 | \$ 300 |
| Nitrile Gloves | \$ 5.00 | /pair | | | | 2 | 5 | 1 | | | | 8 | \$ 40 |
| Tyvek Suits | \$ 12.00 | /ea | | | | 2 | 5 | 1 | | | | 8 | \$ 96 |
| pH, temp, DO, CND, Turb, and Salin. meter | \$ 75.00 | /day | | | | 2 | | 1 | | | | 3 | \$ 225 |
| PTFE Bailer | \$ 25.00 | /day | | | | 5 | | 3 | | | | 8 | \$ 200 |
| Peristaltic Pump | \$ 25.00 | /day | | | | 2 | | 1 | | | | 3 | \$ 75 |
| Personnel computer (networked) | \$ 15.00 | /hr | | | | | | | | | 8 | 8 | \$ 120 |
| Reproduction (sht) | \$ 0.10 | /page | 50 | | | | | | | | 100 | 150 | \$ 15 |
| Facsimile | \$ 1.50 | /page | 10 | | | | | | | | | 10 | \$ 15 |
| GIS/CAD Operations w/plotter | \$ 30.00 | /hr | 8 | | | | | | | | 16 | 24 | \$ 720 |
| Subtotal Dames & Moore Equipment | | | | | | | | | | | | | \$ 2,126 |
| Dames & Moore ODCs | | | | | | | | | | | | | |
| Isopropanol | \$ 35.00 | /gal | | | | 5 | | 2 | | | | 7 | \$ 245 |
| Expendible Supplies (ice, foil, DI water) | \$ 10.00 | /day | | | | 2 | | 1 | | | | 3 | \$ 30 |
| Telephone | \$ 5.00 | /call | 10 | | | 2 | 5 | 1 | 1 | | | 19 | \$ 95 |
| Shipping (overnight ltr) | \$ 5.90 | /ea | 2 | | | | | | | | | 2 | \$ 12 |
| Per Diem | \$ 128.00 | /day | | 1 | | 2 | 5 | 1 | 2 | 1 | | 12 | \$ 1,536 |
| Mileage | \$ 0.31 | /mi | | 240 | | | | | | | | 240 | \$ 74 |
| Field Vehicle (incl mi & fuel) | \$ 50.00 | /day | | 1 | | 2 | 5 | 1 | 2 | 1 | | 12 | \$ 600 |
| Subtotal Dames & Moore ODCs | | | | | | | | | | | | | \$ 2,592 |
| TOTAL ODCs | | | | | | | | | | | | | \$ 14,880 |
| Dames & Moore Equipment Rates obtained from Dames & Moore's Equipment Rate Catalog, FY 97/98 | | | | | | | | | | | | | |
| GeoServices Equipment Rates obtained from GeoServices, Inc. proposal for services to Dames & Moore dated October, 1998 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

TABLE 8-3

SITE INVESTIGATION SERVICES
ADDITIONAL PLUME DELINEATION
VALLEY FORGE GENERAL HOSPITAL

COST ESTIMATE SUMMARY

| | | | |
|------------------------------------|----|--------|--|
| TEMPORARY WELLS P-1 to P-3 | | | |
| Direct Labor | \$ | 8,577 | |
| Overhead | \$ | 12,866 | |
| Total Labor Plus Overhead | \$ | 21,443 | |
| Other Direct Costs and Equipment | \$ | 14,880 | |
| Fee | \$ | 3,420 | |
| TOTAL COST | \$ | 39,742 | |
| TEMPORARY WELL P-4 | | | |
| Direct Labor | \$ | 1,411 | |
| Overhead | \$ | 2,117 | |
| Total Labor Plus Overhead | \$ | 3,528 | |
| Other Direct Costs and Equipment | \$ | 3,639 | |
| Fee | \$ | 679 | |
| TOTAL COST | \$ | 7,845 | |
| TOTAL COMBINED COST FOR P-1 to P-4 | \$ | 47,587 | |

PRICE NEGOTIATION MEMORANDUM

CONTRACT NO. DACA31-97-D-0007
DELIVERY ORDER NO. _____ MODIFICATION _____

PROJECT: OU-2 Solvent Plume Delineation, Building 106, Vehicle Maintenance Facility, Valley Forge General Hospital, Phoenixville, Pa.

INSTALLATION: Valley Forge General Hospital

1. A-E services are authorized by (required to): Baltimore District to perform an HTRW field investigation. This activity is required by the Pennsylvania Department of Environmental Protection to delineate a contaminant plume associated with the vehicle maintenance facility, to aid in siting wells for the post closure monitoring program, which will be installed under a separate work task.

2. The scope of A-E services was prepared on 16 October 1998. The Government estimate in the amount of \$ 35,770.42 was prepared on 14 October 1998 and approved on 14 October 1998. The A-E was requested to submit a fee proposal by letter dated 16 October 1998. An A-E proposal dated 27 October 1998 in the amount of \$52,490 was received by fax on 27 October 1998.

3. The A-E proposal is less than or equal to the Government estimate and is considered fair and reasonable, and is acceptable.

X 4. The A-E proposal does not compare favorably with the Government estimate and is not acceptable for the following reasons:

A/E proposal was greater than the Government estimate and used a three man drill crew for the work.

Negotiations were then entered into, and a revised scope of work was issued on 28 October 1998. The A-E was then requested to submit a revised proposal by letter dated 28 October 1998. A revised Government Estimate was prepared on 28 October 1998 in the amount of \$47,674.63.

X 5. A revised A-E proposal dated 28 October 1998 in the amount of \$47,587 was received on 29 October 1998.

x 6. The A-E proposal is less than or equal to the revised Government estimate and revised work scope, is considered fair and reasonable, and is acceptable.

7. The final A-E proposal was evaluated as follows:

X a. Disciplines, hourly labor rates, overhead rates, and profit rate are in accordance with contract schedule.

X b. A breakdown of all costs greater than \$1,000 is provided.

X c. Proposed reimbursable costs (printing, telephone, postage, vehicle use, materials, etc.) are not included within A-E's overhead costs, are fair and reasonable.

X d. Travel costs are in accordance with Joint Travel Regulations.

30 October 1998

 X e. Proposal reflects required scope of work, including elements of work, deliverables, and performance periods.

 X f. Proposal employs disciplines and consultants similar to the Government estimate and in similar relative proportions and man-hours.

 X g. Proposal reflects Government-provided information.

 X h. Mathematics of the proposal has been checked.

8. Main Topics of Negotiation: The A/E's original proposal included a three man drill crew for the project. The Government Estimate used a two man crew, but did not have allowances for drill crew per diem. The Government estimate also assumed groundwater would be encountered above the refusal point in the borings, limiting the difficulty in well installations, and the amount of wastes generated. In the initial negotiations, it was agreed to consider a two man drill crew for the basic drilling. The Government Estimate was revised to include drill crew per diem and certain items of field equipment included in the A/E's proposal but not included in the Government Estimate. A revised Statement of Work was prepared to clearly state the assumptions regarding the anticipated drilling conditions. The Government Estimate and scope were also revised to include a somewhat more detailed surveying effort due to the poor quality of existing plans and well locations. The A/E's final proposal was in very close agreement with the revised Government Estimate and was accepted.

9. Negotiations were concluded on 28 October 1998 with the following fees and schedule of services:

| Element of Work* | Gov't Est | A-E Fee | Pure Design (6%) | Non- Design Services | Perform Period |
|------------------|--------------|------------|------------------------|----------------------------|-------------------|
| Delineation of | \$39,587.60 | \$39,742 | \$ | \$ 39,742 | |
| Plume, P-1 Thru | \$ | \$ | \$ | \$ | |
| P-3 | \$ | \$ | \$ | \$ | |
| Optional P-4* | \$ 8,087.03 | \$ 7,845 | \$ | \$7,845 | |
| | \$ | \$ | \$ | \$ | |
| Totals** | \$47,674.63 | \$47,587 | \$ | \$ 47,587 | |

*Indicate options as (Opt)

**Exclude site visits

10. Check of 6% maximum statutory limit on pure design: N/A

| | Construc- tion Value | Total Fee* | Pure =Design+ | Non- Design Services* | % Pure Design | % Total Fee |
|---------------|----------------------------|---------------|------------------|-----------------------------|---------------------|-------------------|
| Basic D.O. | \$ | \$ | \$ | \$ | | |
| Previous Mods | | | | | | |
| This Mod | | | | | | |
| Totals* | \$ | \$ | \$ | \$ | | |

*Exclude site visits

11. The A-E has been advised that the final proposal is accepted subject to the approval of the Contracting Officer.

Prepared:

Thaddeus R. Bergling
Thaddeus R. Bergling,
Geologist

10/30/98
Date

REQUEST TO RESERVE AN IDTC

1072

CENAB-EN-G

DATE: 16 Oct. 1998

MEMORANDUM FOR Chief, AE Acquisition Branch

SUBJECT: Request for Reservation

AE NAME: Dames & Moore

CONTRACT NO.: DACW31-97-D-0007

PROJECT TITLE (AMPRS 14 CHARACTERS): OU-2 Val Forge

LOCATION OF PROJECT: Valley Forge General Hospital

☒ NEW DELIVERY ORDER ☐ MODIFICATION TO DELIVERY ORDER

ESTIMATED DATE PACKAGE IS EXPECTED IN AE ACQUISITION BRANCH 11/2/98

*AMOUNT: \$48,000 (include ALL NEGOTIATED OPTIONS)

Thad Bergling, CENAB-EN-GG x4451
Design Manager/Ext

John Berezniak
C, G&I Section

OWNER APPROVAL

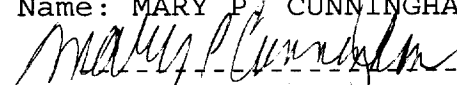
(YOU MUST OBTAIN THE INITIALS OF THE OWNER OF THE CONTRACT)

| | | |
|--|--|--------------------------------------|
| <input type="checkbox"/> MILITARY BRANCH | <input type="checkbox"/> MASTER PLANNING | <input type="checkbox"/> HTRW BRANCH |
| <input type="checkbox"/> PLANNING DIVISION | <input type="checkbox"/> REAL ESTATE | <input type="checkbox"/> CIVIL WORKS |
| <input type="checkbox"/> OPERATIONS | <input type="checkbox"/> DESIGN BRANCH | <input type="checkbox"/> G&WR BRANCH |

A/E ACQUISITION APPROVAL

☒ RESERVATION APPROVED ☐ NUMBER ☐ IN SYSTEM
(OR)
☐ RESERVATION DENIED. REASON FOR DENIAL: _____

Joanne L. Roach/Kimberly Robinson
IDTC Program/ IDTC Program
Manager Assistant

A1. Entry Type: 0 A3. Contract Office: CA31
A2. Report No.: 8245 A4. Name: CENAB, CONTRACTING DIVISION
B1A. PIIN: DACW3197D0007 B1B. Origin of Contract Number: A
B2. Mod/Order/Other ID: 0017
B3. Action Date: 19981120 B4. Completion Date: 19991120
B5A. Contractor Code: 007965189 B5B. Govt Agency: n B5C. Cage: 3Y513
B5D. Name: DAMES & MOORE
Division:
B5E. Address: SUITE 320
City: LINTHICUM St: MD Zip: 21090
B5F. Tax ID: 954316617 B5G. Parent Tax ID:
B5H. Parent Name:
B6A. City/Place Code: 79576 B6B. State or Country Code: 42
B6C. Name of City/State/Country: VALLEY FORGE, PA
B7. Type Obligation: 1 B8. Amount: 47587
B9. Foreign Military Sale: N
B10. Multi Year Contract: N
B11. Total Multi-Year Value: 0
B12A. FSC: C219
B12B. DOD Claimant Prog. No.: S10
B12C. System or Equipment Code: 000
B12D. SIC Code: 8713
B12E. Name Description: SOL PLUME DEL
B13A. Contract/Order: 5 B14. CICA Applicability: B
B13B. IDC Contract Type: B
B13C. IDC Award Type: S
B13D. Modification:
C1. Synopsis Code: A
C2. Reason Not Synopsized:
C3. Extent Competed: A
C4. Sea Transportation: N
C5. Type of Contract: J
C6. Number of Offerors Solicited: 2
C7. Number of Offers Received: 002
C8. Solicitation Procedures: D
C9. Auth/Other than Full & Open:
C10. Subject/Labor Standards Stat: C
C11. Cert/Current Cost or Pricing: N
C12. Contract Financing (PP and AP): A
C13A. Place of Manufacture:
C13B. Country of Origin Code:
C14. Commercial Items: N
D1. Type of Business: C E1. (reserved)
D2. Reason not awarded to SDB: B E2. (reserved)
D3. Reason not awarded to Sm Bus: B E3. (reserved)
D4A. Type of SB - Set Aside: A E4. Contingency Operation:
D4B. Type of SDB Set Aside-SDB Pref: A
D4C. Black or minority institution: A
D4E. Premium Percent: E8. Other:
D5. Ethnic Code: F1. Contracting Officer: K13
D6. Woman-Owned Business: N Name: MARY P. CUNNINGHAM
D7. SBIR Program: A F2. 
D8. Subcontr Plan - Small and SDB: B Signature
D9. Demonstration Test Program: Y
D10. Size of Business: F3. Phone: (410) 962-3953
D11. Emerging Small Business: N F4. DATE: 19981120

AE: DAMES & MOORE

CONTRACT NO.: DACW31-97-D-0007

PROJECT TITLE: D.O. 0017

PROCUREMENT TECHNICIAN: JOANNE ROACH

**AE ACQUISITION BRANCH
DELIVERY ORDER AND MODIFICATION
DISTRIBUTION**

| RECEIVING OFFICE OR PERSON | COPIES SENT | DATE SENT |
|---|-------------|-----------|
| ARCHITECT-ENGINEER (SHOULD RECEIVE AN ORIGINAL) | 1 | |
| DESIGN MANAGER | 1 | |
| INSTALLATION (IF APPROPRIATE) | 1 | |
| <u>AE ACQUISITION BR</u> CONTRACTING OFFICER (COPY FOR 60 DAY OBLIGATION) JOANNE (COPY OF CONTRACT AND EXTENSIONS) | 1 1 | |
| PLANNING DIVISION (EFFIE HONDRELIS) (IF CONTRACT BELONGS TO PLANNING) | 1 | |
| OTHER | 1 | |

H:\...WP51DATA\JOANNE\DISTR

REV. 04 FEB 98

Suspense: 23 NOVEMBER 1998
Date: 20 NOVEMBER 1998
Date Rcvd: 20 NOV 98
Technician/ Specialist: Reich

CENAB

[For new contracts only, send this Request thru Design/Geotechnical Branch for signature of Attachment G.]

MEMORANDUM THRU Chief, Design/Geotechnical Branch

FOR Chief, Contracting Division, ATTN: CENAB-CT-A

SUBJECT: REQUEST FOR ARCHITECT-ENGINEER CONTRACT ACTION

Purchase Request Number _____
(DODAC) (JULIAN DATE) (#)
ONABLU 5010 A001 (Example)

A. Service Required and Costs

☐ New "C" Contract (\$8K) ☐ Claims Processing (\$25K) ☐ Other (Negotiable)
☐ Mod. to "C" Contract (\$800) ☐ Contract Ext. (\$3200)
☐ Modification to D.O. (\$800) ☐ Process BCM (0)
☒ Delivery Order (\$2K) ☐ New "D" contract (\$8K)

Any package received after 1 September will incur a doubled fee.

B. Project Title, Location QVZ CONTAMINANT PLUME DEFINITION, VALLEY FORGE GENERAL HOSPITAL

C. Contract Instrument Cost Code (or MIPR) W81W3G8322 7052 Amount \$ 47,587.00

D. Admin. Cost Code (or MIPR) L 23399 Amount \$ 2,000.00

E. Attachments:

☒ Contract Request Package ☒ D.O./Mod Package ☐ Other
A. CBD with checklist E. Funds Certification A. Scope E. Negot. Memo
B. MIPR F. In-House Non-Avail Stmt B. Proposal F. Reservation
C. Scope G. Information Technology IT memo C. GE G. Info Tech Memo
D. GE H. Procurement Integrity (100K or <) D. 3039 H. Procurement Integrity (100K or <)

* Attachment G, In-House Non-Availability Statement, is required pursuant to 10 U.S.C. 4540, to initiate a new contract. It must be signed by the Chief of Design or Geotechnical Branch prior to forwarding this form to Contracting Division.

H. Option Year Determination (For IDTC's only), is required pursuant to EFARS 36.602-90(c)(106). It must be signed by the Contracting Officer prior to advertising for IDTC contract.

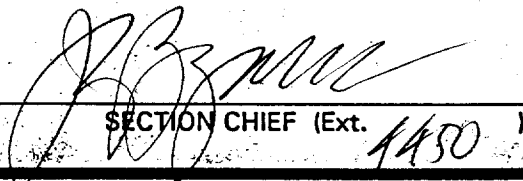
I. Basis for Selecting Firm: ☐ Customer Choice; ☐ Capacity to meet schedules ☐ Equitably distribute workload ☐ Specialized Experience ☐ Other

J. AE Name/Contract No. DAMES & MOORE DACW31-97-D-0007

K. Project Manager & Office Scott MacClannell, B. 1000, M.D. Phone No. (301) 692-2245

L. I have reviewed this request and find it to be clear, concise, properly funded, and all documentation is provided.

Signature


SECTION CHIEF (Ext. 1450)

Office Symbol

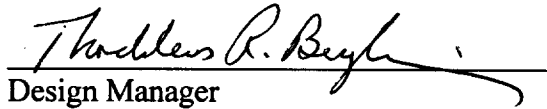
CENABEN-66

MEMORANDUM FOR RECORD

SUBJECT: Information Technology (IT) Resources for an Indefinite Delivery-Type Architect-Engineer Contract for the Baltimore District.

1. Reference: Information Technology Management Reform Act (ITMRA), 8 August 1996 (Formerly FIPS required documentation).
2. The value of the IT (Information Technology) resources to be delivered on the work order entitled "OU-2 Contaminant Plume Delineation, Valley Forge General Hospital, Phoenixville, Pennsylvania," under Contract No. DACW31-97-D-0007 is less than \$50,000.00, constitutes only a minimal dollar amount of this scope of work, and is incidental or non-significant to the purposes of this request for proposal. Consequently, the applicability of ITMRA requirements for the subject project does not apply. A DPA does not have to be obtained for this procurement.

Prepared By:


Design Manager

10/30/98
Date

U.S ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT
P.O. Box 1715
Baltimore, Maryland
21203

WORK PLAN
Delineation of Contaminant Plume
OU-2 Vehicle Maintenance Facility, Building 106
Valley Forge General Hospital
Phoenixville, Pennsylvania

September 1998